

19970814.qrp v00\_n818.qrs.970814

>From ???@??? Fri Aug 15 01:33:35 1997  
Date: Thu, 14 Aug 1997 19:03:36 EDT  
Subject: QRP-L digest 818  
Message-Id: <97Aug14.191240edt.35141-22128+188@fidoii.cc.Lehigh.EDU>

QRP-L Digest 818

Topics covered in this issue include:

- 1) [24843] A Doug Hendricks Bulletin  
by "Graham Firth" <Graham.Firth@btinternet.com>
- 2) [24844]  
by Jim Bennett <jbennett@ebmud.com>
- 3) [24845] Re: P43HK/QRP, 21059 kHz , 2133Z  
by Ed Loranger <we6w@qsl.net>
- 4) [24846] Re:  
by Ed Loranger <we6w@qsl.net>
- 5) [24847] Where is FU2MM from?  
by KG0ZT <pugrad@millcomm.com>
- 6) [24848] Anyone replace an OMNI VI crystal oven?  
by Clark Savage Turner WA3JPG <turner@safety.ics.uci.edu>
- 7) [24849] Changing E-mail..  
by JAlexan706@aol.com
- 8) [24850] RE: FIRE BALL POPULAR  
by pthomson@bruderhof.com
- 9) [24851] Bright 1.5v Red LED's ???  
by Jim Dolson <jdolson@iserv.net>
- 10) [24852] 38S HELP!!!!!!!!!!!!  
by JAlexan706@aol.com
- 11) [24853] K5F0/7  
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 12) [24854] WARNING: Removal of chips from old boards.  
by "Mark W. Tilden" <mwtilden@aerie.lanl.gov>
- 13) [24855] TH-6 help  
by richl@aztec.asu.edu (RICHARD LANGEVIN)
- 14) [24856] How to unsubscribe properly  
by Mike Czuhajewski <wa8mcq@u1.abs.net>
- 15) [24857] How Re-Subscribe after Un-subscribe?  
by "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
- 16) [24858] Re: K5F0/7  
by Jeff Grudin <grudin@pacific.vdbs.com>
- 17) [24859] Where is FU2MM from?  
by SEAB&SHARON LYON <SSLYON@worldnet.att.net>
- 18) [24860] Re: learning CW operating procedures (long)  
by Paul Erickson <paul1@wizard.ucsfu.ca>
- 19) [24861] Antenna Question

- by Raventhorne <jelder@ix.netcom.com>
- 20) [24862] France (or territory) I hope... rather than bootlegger  
by KG0ZT <pugrad@millcomm.com>
- 21) [24863] AL7FS in Skagway, Alaska - Gives it up.  
by JLarsen@alascam.att.com
- 22) [24864] Re: Anyone replace an OMNI VI crystal oven?  
by "John Kemker" <kemkerj@xyzzy.net>
- 23) [24865] Re: AL7FS in Skagway, Alaska - Gives it up.  
by Harvey Hetland <n6mm@earthlink.net>
- 24) [24866] Flamboyant chip removal (safe, too)  
by Jim W7LS <w7ls@brigadoon.com>
- 25) [24867] Digest 816  
by Mel Evans <MelEvansGM6JAG@compuserve.com>
- 26) [24868] Thanks Everyone  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 27) [24869] Horizontal phased arrays  
by "L. B. Cebik" <cebik@utkx.utcc.utk.edu>
- 28) [24870] Re: WARNING: Removal of chips from old boards.  
by "Bob Duckworth" <wb4mnf@atl.org>
- 29) [24871] Re: Digest 816  
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 30) [24872] Straight Key Selection  
by Greg Newberry <newberry@cyberhighway.net>
- 31) [24873] Thanks for the suggestions!  
by bill@taprov.com (Bill Cleveland)
- 32) [24874] Geezzz...  
by Larry East <w1hue@amsat.org>
- 33) [24875] Re: WARNING: Removal of chips from old boards.  
by "Bob Kellogg" <ae4ic@nr.infi.net>
- 34) [24876] Re: K5F0/7  
by w4bws@juno.com (Donald E Sanders)
- 35) [24877] Re: Where is FU2MM from?  
by w4bws@juno.com (Donald E Sanders)
- 36) [24878] 1750 meters--VLF QRP band!  
by Jim Glover <psykey@okcforum.org>
- 37) [24879] Re: Antenna Books  
by Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>
- 38) [24880] Re: 1750 meters--VLF QRP band!  
by Chris Cartwright <ccart@dns.vidtel.com>
- 39) [24881] [Fwd: TenTec QRP For Sale]  
by Vic Rosenthal <rakefet@rakefet.com>
- 40) [24882] Re: Changing E-mail..  
by Ed Loranger <we6w@qsl.net>
- 41) [24883] Re: K5F0/7  
by Ed Loranger <we6w@qsl.net>
- 42) [24884] Re: learning CW operating procedures (long)  
by Ed Loranger <we6w@qsl.net>
- 43) [24885] OMNI VI crystal oven

by Clark Savage Turner WA3JPG <turner@safety.ics.uci.edu>  
44) [24886] Re: 1750 meters--VLF QRP band!  
by Ed Loranger <we6w@qsl.net>  
45) [24887] Re: OMNI VI crystal oven  
by Dana Myers K6JQ <myers@utopia.West.Sun.COM>  
46) [24888] Re: K5F0/7  
by Bob Hightower <ki7mn@dancris.com>  
47) [24889] custom xtal osc.  
by scicior@uswest.com (Steve Ciciora)  
48) [24890] Help VU  
by "Frank, G3YCC." <g3ycc@gqrpclub.demon.co.uk>  
49) [24891] EA-QRP CLUB Website  
by "Juan Antonio =?iso-8859-1?Q?L=F3pez?= Delgado, EA8QJ, EA-QRP # 196"  
<jalopezd@arrakis.es>  
50) [24892] Re: K5F0/7  
by Zack Lau <zlau@arrl.org>  
51) [24893] Dr. Balanis' Antenna Theory Book  
by Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>  
52) [24894] Batteries FS/Trade  
by "Thomas J. Whalen" <whalen@swcp.com>  
53) [24895] Re: [Fwd: TenTec QRP For Sale]  
by Vic Rosenthal <rakefet@rakefet.com>  
54) [24896] re:K5F0/7  
by "Phil, K6LS" <k6ls@qsl.net>  
55) [24897] Re: Rohn Address  
by Bill Howell <bhowell@mail.utexas.edu>  
56) [24898] for sale stuff. and cheap microprocessor crystals.  
by Bernie Doehner <bad@uhf.wireless.net>  
57) [24899] CW operating procedures (more)  
by Sandy W5TVW <ebjr@worldnet.att.net>  
58) [24900] Re: OMNI VI crystal oven  
by Clark Savage Turner WA3JPG <turner@safety.ics.uci.edu>  
59) [24901] Re: [TenTec] OMNI VI crystal oven  
by Clark Savage Turner WA3JPG <turner@safety.ics.uci.edu>  
60) [24902] QRP-L Command Summary  
by adams@chuck.dallas.sgi.com (Chuck Adams)

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Date: Wed, 13 Aug 1997 22:31:44 +0100  
From: "Graham Firth" <Graham.Firth@btinternet.com>  
To: <qrp-l@Lehigh.EDU>  
Subject: [24843] A Doug Hendricks Bulletin  
Message-ID: <E0wylJd-0004k5-00@helium.btinternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hi

I though I would post a bulletin on Doug's progress here in the old country.

Doug and his lovely wife are having a great time. I have only seen Doug happier once before - and that was when he got the better of K5FO at Dayton this year!

He has travelled the length and breadth of the country a number of times - visiting friends, hamfests and historic sites.

He came to us here in Leeds today, straight from the guru's (The Rev George's). We jawed a bit, played in the shack, went tool shopping, then we took them out to sample real Yorkshire made Yorkshire Pudding (and no, it's not a sweet!) and some genuine Guinness stout.

Finally, we went to a branch of Maplins - a UK component outlet & then he was off to finish his holiday in our capital city. He comes home to you at the beginning of next week.

If you talk to him, ask him about Black Pudding - even better, ask his wife!!!

I almost defy anyone to have a better holiday than they are having (well, Tony & I enjoyed Dayton a lot and probably almost beat him!)

BTW - he's not on the air here this time, but he will be next time - he's decided he wants a G call (well it will be an M0xxx call now). He's left me the job of organising that!

72/3 from the UK

Graham

G3MFJ/AB7VN

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Date: Wed, 13 Aug 1997 15:03:29 -0700  
From: Jim Bennett <jbennett@ebmud.com>  
To: "'QRP-1 Postings'" <qrp-1@Lehigh.EDU>  
Message-ID: <01BCA7FA.0FC89F00@jbennett.ebmud>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Gang - several weeks ago I posted a question about how to increase the output power of my Sierra on 30 meters. Got lots of replies, and last week I posted a big TU VY MUCH!

I have also received e-mail from several others who were interested in what I found out. I sent direct replies to those who asked. I have also gotten a couple requests to post those same results to the

list. A huge majority of the suggestions I received are contained in a "report / list" by Bob Follett / AB7ST. At Bob's request, I will not post this rather lengthy piece of text to the list, but will send it out to individual inquiries.

Soooooooo..... If you want an electronic copy of Bob's Sierra Power Mods, please send me an e-mail directly [jbennett@ebmud.com](mailto:jbennett@ebmud.com) and I'll forward the info to you.

Please note that my reply might not be immediate, because I'm leaving on Saturday for a week in XE3 land, and I've got a ton of stuff to take care of before then. I'll try to answer those coming in this week - others will have to wait until I return from the land of margaritas!

72, Jim / W6JHB

+-----+  
Jim Bennett / [jbennett@ebmud.com](mailto:jbennett@ebmud.com)  
Supervising Systems Programmer  
East Bay Municipal Utility District  
375 11th St.  
Oakland, CA 94607

Voice: 510.287.0224 / fax: 510.287.0373

+-----+

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Date: Wed, 13 Aug 1997 16:02:33 -0700  
From: Ed Loranger <[we6w@qsl.net](mailto:we6w@qsl.net)>  
To: [n6mm@earthlink.net](mailto:n6mm@earthlink.net)  
Cc: Low Power Amateur Radio Discussion <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
Subject: [24845] Re: P43HK/QRP, 21059 kHz , 2133Z  
Message-ID: <[33F23D09.7DD@qsl.net](mailto:33F23D09.7DD@qsl.net)>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I searched for him last night for 1-1/2 hours before I ran out of steam. Did year you on 7042 though, Harvey.

Love the sound of your Callsign from your beam antenna. It may have been AF6LS you were working. Just listened for K5FO while practicing with my GDO on a tuned circuit and heard the activity.

One heck of a ragchew going on at 7040 with some QRO operators. May have covered the fox.

QF0? any one else?

-Ed Loranger

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72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VF0.

QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

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Date: Wed, 13 Aug 1997 15:30:19 -0700

From: Ed Loranger <we6w@qsl.net>

To: ljerman@earthlink.net

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [24846] Re:

Message-ID: <33F2357A.39F2@qsl.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Laird Jerman wrote:

>

> info

You want the list admin server:

mailto:listserv@Lehigh.EDU

Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VF0.

QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----  
Date: Wed, 13 Aug 1997 17:40:30 -0500 (CDT)

From: KG0ZT <pugrad@millcomm.com>

To: "QRP-L --> Post to list" <QRP-L@Lehigh.EDU>

Subject: [24847] Where is FU2MM from?

Message-ID: <Pine.GS0.3.95.970813173410.6886A-1000000@midas.millcomm.com>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

About a week ago while operating QRP portable in Wisconsin, I had a 'callsign exchange' only with FU2MM on 20 meters... and then he faded away.

My 1990 International Callbook does not list this call or "FU2" prefix.

Can anyone shed some light on where he/she was from.

TIA... 72 Dave - KG0ZT

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*****
*
* 72 / 73 KG0ZT Dave Cary Rochester, MN
* ARRL VE QRP-L # 979
*
* pugrad@millcomm.com
*
*****
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Date: Wed, 13 Aug 1997 15:09:57 -0700  
From: Clark Savage Turner WA3JPG <turner@safety.ics.uci.edu>  
To: qrp-1@Lehigh.EDU  
Subject: [24848] Anyone replace an OMNI VI crystal oven?  
Message-ID: <6235.871510197@safety.ics.uci.edu>

Hello all ...

My newfound OMNI VI was a bargain...yep. It is beautiful, was cheap, and it drifts pretty constantly on all bands. I suspect the crystal oven is running away or the crystal is bad in there.

Anyone ever replace one of these? Know the approx cost? I would replace it quickly if cheap, would take my time testing carefully if expensive, would wait for Ten Tec service if it is complex.

Any hints or suggestions welcome, if any of you guys have done this.

Clark  
WA3JPG

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Date: Wed, 13 Aug 1997 21:20:47 -0400 (EDT)  
From: JALexan706@aol.com  
To: qrp-1@Lehigh.EDU  
Subject: [24849] Changing E-mail..  
Message-ID: <970813211803\_-1202919535@emout10.mail.aol.com>

How to I unsubscribe and re subscribe with another E-mail sever. Thanks again.

73  
KB0PTE  
Wayne  
QRP-L # 1058

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Date: Wed, 13 Aug 1997 21:23:36 -0400  
From: pthomson@bruderhof.com  
To: qrp-1@Lehigh.EDU ("Low Power Amateur Radio Discussion")  
Subject: [24850] RE: FIRE BALL POPULAR  
Message-ID: <B821F2338100001F5CAB@mail.bruderhof.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset="ISO-8859"  
Content-disposition: inline  
Content-transfer-encoding: 7bit

kreinbd@ccgate.dl.nec.com wrote:

Judging from the many responses I received, I'd say  
the little Fire Ball transmitter was a big success.

I'm wondering if the company/person who kitted them  
is still around? I've looked at TTL crystal oscillators  
and the only popular ham frequency available is  
28.322 MHz. All others are outside the ham bands.

Well...

There always 14.31818 MHz. It used to be used for PCs back  
in the 4.77 MHz 8088 days ( $3 \times 4.77 \approx 14.318$ ), and some newer  
PC designs still use it for certain clocks (e.g. VGA cards). So if  
you live near lots of PCs, don't try to use it.

If you like 80m, there are 3.579545 and 3.6864 MHz oscillators.



DigiKey has TTL oscillators on both 14.31818 and 28.322 for \$3.38 apiece. Hardly need a kit; just one of those and a 78L05 regulator, a 9v battery and key would do the trick.

Poor DigiKey ... won't know what hit them when the orders start rolling in!

72 de KA2QPG,  
Pierre Thomson

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Date: Wed, 13 Aug 1997 21:51:42 -0400  
From: Jim Dolson <jdolson@iserv.net>  
To: qrp-l@Lehigh.EDU  
Subject: [24851] Bright 1.5v Red LED's ???  
Message-ID: <33F264AE.485B@iserv.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Can anyone suggest a really bright red LED that runs off of 1.5 volts? Or maybe a bright one? OK, I'll settle for a dull, poor excuse for an LED, but it must be red and the brighter the better.

I get the list in digest form - if possible, please reply directly to jdolson@iserv.net.

TNX!

Jim  
WB8ZBD  
jdolson@iserv.net

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Date: Wed, 13 Aug 1997 21:16:44 -0400 (EDT)  
From: JAlexan706@aol.com  
To: qrp-l@Lehigh.EDU  
Subject: [24852] 38S HELP!!!!!!!!!!!!  
Message-ID: <970813211332\_-670341746@emout12.mail.aol.com>

I did the 5 watt mod and the 10ohm resistor went up in smoke after getting it adjusted. Does this resistor need to be a 1/2 watt or what? I had a 1/4 watt

in there. It was putting out about 4 watts with a 12v power supply hooked to it. If anyone can help me thanks in advance.

Thanks agn.

73

KB0PTE

Wayne

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Date: Thu, 14 Aug 1997 02:27:03 +0100  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: qrp-1@Lehigh.EDU  
Subject: [24853] K5FO/7  
Message-ID: <199708140127.CAA17428@chuck.dallas.sgi.com>

Gang,

The plan was to operate from the WY/ID border just east of Jackson WY. Got to the cabin unpacked and started setting up the rig. I had grabbed the 1.3Ahr Gel-Cell that had a power cord and barrel connector on it. Wouldn't you know it was the wrong one? Yep, and Jackson WY does not have a Radio Shack or any other electronics outlet!! I didn't have any alligator clips and wires to do a work around.

I know that WY was a rare state. Did not see a single tower in the western half of the state.

So my apologies to those that listened for me. I tried but I just didn't have the necessary materials with me. Now I know what guys/girls have these boxes of rigs/keyers/keys/ant/... already made up to travel. Mine to be done by weekend.

I also managed to fall down a flight of stairs when I first got to the cabin. That was an interesting experience to say the least. Thought the right arm was going to be out of commission for a while but got lucky for sure.

Will try again next week from Silicon Valley, a.k.a. Mt View CA.

dit dit de K5FO/5/6/7/..../AM

Chuck Adams K5FO CP-60 adams@sgi.com  
<http://reality.sgi.com/adams/index.html>

K5FO's online Morse Code course --- see the home page  
WIMPS: Qs=053 30m=48 17m=5 12m=0 States=26/05/00 DX=04/00/00 QSLs=022

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Date: Wed, 13 Aug 1997 13:02:59 -0700  
From: "Mark W. Tilden" <mwtilde@aerie.lanl.gov>  
To: beam@webconn.com  
Subject: [24854] WARNING: Removal of chips from old boards.  
Message-ID: <33f26550.pandora@pandora.lugs.org.sg>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi. I'd just like to point out that removing chips from boards is NOT a recommended practice if you don't know what you're doing. Do NOT put them in your oven as the danger of noxious gasses and fire from the plexiboard is very high. Yes, I did it as a kid, but I was both stupid and desperate for parts. I can take no responsibility for any damage to you, yours, or anybody's if you don't take the appropriate precautions.

To get an idea of how best to do it, after an \*outdoor\* barbequeue when the coals are hot but not flaming, hold a board by the edges using a pair of vice-grips with the component side up at a height of 8 inches over the coals while ANGLING THE BOARD AWAY FROM YOU. This will deflect much of the radiant heat from searing your fingers and melting your chesthair. Never put the board flat on the grill as that's a sure way to let it catch fire and ruin your grill with nasty lead deposits. You have to put the board in a flow of radiant hot air. When the air stops (by placing it flat), the heat builds up and flashover is the result.

After about 2 min or so, you'll see and hear (pop, snk!) the solder start to melt. If the board starts to bend or smoke, then raise it an inch or so as you're giving it too much heat. Don't breathe the smoke (if any) as it gives a rather unpleasant buzz and long-term lung damage. Be sure of your ventilation!

Now that the solder is melted, while still holding it over or near the heat, you can try two ways of removing components.

If the pins are folded over, then a long thin screwdriver and needlenose pliers will be necessary to pry up one edge of and remove the components. Take them out one by one and put them in a ceramic bowl to cool down slowly. If you drop them in water or somesuch, they will crack and die. Slow cooling insures a better chance they'll be useful. Be very careful not to lean your fingers on the board or you'll have a nasty bus-style burn mark. Also I'd recommend you don't wear gloves as they tend to absorb heat

to the point where you realize your fingers are burning in a trapped space. Very nasty. On the other hand, clean safety goggles are recommended to keep flying bits of solder away.

If the pins are straight or you're working with an surface-mount board, you can just tap the hot board onto a concrete surface and the components will usually just drop off. Be careful as a lot of solder will also fall, so do this only on surfaces which you can clean or dispose of easily (newspaper works). Much better usually to remove the components individually with pliers as this also limits the amount of solder blobs left on component pins.

Once your board is empty enough, you can splash water on it, cool it down, and dispose of in an environmentally friendly way. DON'T BREATHE THE STEAM for reasons of etc.

And there you are. Faster, cheaper and cleaner than taking a butane torch to the parts. After a few boards, you'll also develop a knack of heating the board just enough so that you can even remove quality plastic sockets without damage, and farther along, you'll learn how to heat a board, remove several components, put in replacements and let the board cool back to service. Repaired a good number of powerbooks and disk-drives this way.

Mass-Component removal is a skill that can save you a lot of money in the short run, but please be damn careful.

Again, I take no responsibility for problems caused by this advice. Good luck.

Thanks.

markt.

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+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      | danwee@singnet.com.sg         |
| QRP-L #667 | 9V1ZV@amsat.org                     |
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Date: Wed, 13 Aug 1997 20:20:25 -0700 (MST)  
From: rich1@aztec.asu.edu (RICHARD LANGEVIN)  
To: qrp-l@Lehigh.EDU  
Subject: [24855] TH-6 help  
Message-ID: <9708140320.AA19936@aztec.asu.edu>

HI ALL

After lurking in the background, and learning a lot for about 2 years,  
I need some advice.

In a recent trade I ended up with a TH - 6 from HY-GAIN circa 1958.  
For those not familiar with the antenna it's a 6 element 10 15 20  
trapped tri bander, that I want to use on my QRP rigs.  
OK enough background information, being that the antenna is older than me :)  
it needs some work and I'm lovingly rebuilding it, my question is should I  
rivet the elements or clamp them or both.

Thanks in advance for all of the advice

rich KB7YEB Tempe, AZ.

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Pursuant to US Code, Title 47, Chapter 5, Subchapter II,  
any and all nonsolicited commercial E-mail sent to this address  
is subject to a download and archival fee in the amount of \$500.00 US.  
E-mailing denotes acceptance of these terms.

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Date: Wed, 13 Aug 1997 23:52:43 -0400 (EDT)  
From: Mike Czuhajewski <wa8mcq@u1.abs.net>  
To: qrp forum <qrp-l@Lehigh.EDU>  
Subject: [24856] How to unsubscribe properly  
Message-ID: <Pine.BSI.3.93.970813234949.5538A-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Pardon me if this has already been commented on; I'm running on the  
Daily Digest and won't see any replies to this situation until 24 hours  
from now. If it turns out it was already commented on--and probably  
has been, at least 2 dozen times!--that's OK too since this is something  
that everyone needs to be reminded of.

Daily Digest 817 contained an unsubscribe message which was sent to  
QRP-L (to QRP-L@lehigh.edu) instead of through the proper channels  
(to listserv@lehigh.edu). He also managed to activate the "include  
original message" function, and what he sent his "unsubscribe" request  
in response to was a daily digest. The bottom line is that his  
unsubscribe request had daily digest 816 in its entirety attached to it :-)

For those of you not keeping count, it made daily digest 817 a whopping 201K in length; his "unsubscribe" posting alone accounted for 101K of that, or 53 pages of text under Microsoft Word for Windows 95! And he even spelled "unsubscribe" wrong, to boot :-)

Folks, remember that when you signed up you got an automated welcome message which you were requested to save and refer to if you had any questions. Some people actually DO save it! Among other things it tells how to unsubscribe. It may well work on some mailing lists, depending on how they are set up or what software runs them, but one does NOT unsubscribe from QRP-L by sending "unsubscribe" to QRP-L@lehigh.edu. All that does is let everyone on the list, which is close to 2000 people by now, know that you want to unsubscribe. It does NOT get you off the list (unless someone seeing it bothers to tell N3VXI to take you off). Of course, I think in some cases people might be deliberately doing it that way just to send a message about their displeasure with the list or some people on it :-)

To unsubscribe, send e-mail to listserv@lehigh.edu, and in the text say

unsubscribe QRP-L

And THAT will get it done. Sending "unsubscribe" to QRP-L itself does not get you taken off; it only irritates quite a few hundred people :-). And accidentally attaching an entire daily digest of 101K of text to the unsubscribe message is definitely NOT a good way to win friends and influence people!

73 and Queue Our Pea DE WA8MCQ

wa8mcq@abs.net

-----  
Date: 14 Aug 97 00:01:16 EDT  
From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>  
To: QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@CompuServe.COM>  
Subject: [24857] How Re-Subscribe after Un-subscribe?  
Message-ID: <970814040115\_70511.3041\_IHD46-1@CompuServe.COM>

Gang:

I will be in Kiev UKRAINE for 2 weeks starting tomowwor. I have a note on how to Un-subscribe:

listserve@lehigh.edu

unsubscribe qrp-l

Is this correct, or do I also need my callsign?

Then....when I get back will want to get right back up to speed. So will not unsubscribe tonight...hoping for e-mail help from someone. Guess I need both how to unsubscribe (for \*sure\*!) and then how to get going again.

Thanks for all your help. See you on 28 Aug 97 as my last round of 50/40/30.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 mn-qrp 19 nj-qrp 69 ak/qrp 139  
ARCI 9398 ARRL WAS 48/38 DXCC 52/39 <><

-----  
Sierra Argosy 525 Argo 515 HW-9 Explorer II-40 SW-30 Norcal 40a  
Emtech 40-40 SW-40 TT 1340 A&A Gary Breed 30 49er 38S Mercury  
Paddles MFJ 259 MFJ 941D TNT/2 Windom SLV/W6MMA HB G5RV  
Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

-----  
Date: Wed, 13 Aug 1997 21:15:28 -0700  
From: Jeff Grudin <grudin@pacific.vdbs.com>  
To: qrp-l@Lehigh.EDU  
Subject: [24858] Re: K5F0/7  
Message-ID: <33F28660.4419@vdbs.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

> I had grabbed the 1.3Ahr Gel-Cell that had a  
> power cord and barrel connector on it. Wouldn't you know  
> it was the wrong one?

Well I for one am glad to know this kind of stuff happens to others. This weekend I went to my boat, planned to try some WAE contest. Went through my checklist and had all the stuff. Brought my new antenna to try it out. Antenna had a BNC and rig a PL259. No radioshack at anchor





>  
>About a week ago while operating QRP portable in Wisconsin, I had a  
>'callsign exchange' only with FU2MM on 20 meters... and then he faded  
>away.  
>  
>My 1990 International Callbook does not list this call or "FU2" prefix.  
>  
>Can anyone shed some light on where he/she was from.  
>  
>TIA... 72 Dave - KG0ZT  
>  
> \*\*\*\*\*  
> \* \* \* \* \*  
> \* 72 / 73 KG0ZT Dave Cary Rochester, MN \*  
> \* ARRL VE QRP-L # 979 \*  
> \* \* \* \* \*  
> \* pugrad@millcomm.com \*  
> \* \* \* \* \*  
> \*\*\*\*\*  
>  
>  
>  
"Seab" Lyon -- AA1MY  
Bethel, CT; USA FN-31-HJ  
ARCI #9253; QRP-L # 574  
NEQRP# 511; ARRL; QCWA;  
C.A.R.A.

-----  
Date: Wed, 13 Aug 97 21:31:18 PDT  
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>  
To: psykey@okcforum.org  
Cc: qrp-l@Lehigh.EDU (qrp)  
Subject: [24860] Re: learning CW operating procedures (long)  
Message-ID: <9708140431.AA27582@wizard.ucs.sfu.ca>

Hi Jim,

Well, since my message, in some ways, sparked this, will try to add something useful. I didn't respond to the original message because I couldn't think of a book to answer your question, and two because I didn't feel really qualified to do so. There are many people on this list who have forgotten more about cw than I will ever know. I offer the following thoughts for consideration and comment.

To begin with, I am reluctant to talk about cw "procedures" but would ask you to think in terms of principles and skills. My principles for cw, contesting, and dxing are these.

### 1 - Have FUN!!!!!!!

Whatever happens, return to this principle to put things in their proper perspective. (See examples below of where I forgot this.)

### 2 - Listen

You are right, the most important thing you can do is listen and learn. There is no substitute for experience, and this only comes with putting in time.

Operating CW is like learning to speak another language (no, I don't want to restart that thread) I was blessed with a great German teacher in high school. From the very first day, each monday he put 20 vocabulary words on the board, and each friday, we had to stand up in front the the class with a partner and put them into a conversation. In the beginning he was not very concerned about our grammer, but wanted us to get as comfortable as possible speaking it. I was not one of his best students, by a long shot, but when I went to live and study in Germany, I was miles ahead of other students who had spent 4 years studying lexicons and grammars, even though I had only 2 years. In fact our instructor in Germany told us to put the grammars and lexicons away, and learn what "sounded right". (see principle 8 below)

DXing example: Don't send your call to a dx station in a pileup unless you can answer the following questions: Where is he listening, what exchange is he sending. If you don't hear him working people on his frequency, chances are he is working split. To call on his frequency, or to send your call several times when the dx station is generally responding on one call is to violate principle 5 below.

### 3 - Find the rythem.

This applies to your own sending, and that of the dx/contest station you want to contact. As my Arnis (stick fighting) partner was fond of saying, "find the flow, find a way."

DXing example: knowing when to send your call (ONCE) in a pileup is essential, and decreased your frustration and the frustration of all concerned. There times when it is

appropriate and advantageous to be slightly out of sync with the crowd, but you have to know how to be in sync first.

Contest example: One sunday (toward the end of a contest) I was looking for contacts on 20mtrs and found a weaker station calling cq contest near dx station that was causing a huge pileup. I could bearly hear the dx station, so didn't waste time calling him, but fired my call at the weak station near him when his pauses coincided with a lul in the pileup. After a couple of tries he realized what I was doing, and we timed our exchanges between the avalanches and gave each other a point. I can't speak for him, but I was thrilled at having made the contact under those conditions. see principle #1

#### 4 - Don't be afraid of looking like a fool.

Don't let a lack of knowledge keep you from jumping in there and giving it your best shot. Those who would look down on you for doing your best aren't worth worrying about. Those whose opinion is worth considering will understand.

#### 5 - Don't be a fool

There is a difference between being uninformed and acting IGNORANT. Examples of the latter: Sending your call several times in a pileup without listening to see what is going on. (see principle 2) Sending your name and qth in a dx pileup when the dx operator is only exchanging signal reports. This also applies to those who call a station at 40wpm that is CQing at 22wpm. etc.

#### 6 - Use caution in choosing those whose opinion you will value.

Some years ago when I was shooting competatively, it became obvious that the best shots were not necessarily the best coaches. You are not looking for someone who will show you how good they are, but someone who will teach you how to become the best you can be.

#### 7 - RELAX

As with anything, the more relaxed you are, the better you will be. Two years ago, I was doing my first Field Day at a new club, and I heard through the grapevine that someone had questioned my abilities, and the wisdom of my leading off in the first shift of our 1A effort. In addition, in setting up up the monitor rig which happened to be mine, there was a power surge that blew up my ts930's powersupply. Then the battery we were using to

make our first 5 natural power qso's died, and we had to swap out rigs, etc. Also, there were a half dozen people looking over my shoulder, including 2 members of the Fast Operators Club, one of whom has been certified at over 70wpm, who I wanted to impress. As you can probably guess, I CHOKED Big Time. I had become my own worst enemy, and I don't know about you, but when I fight myself, I always end up losing. On the other hand, having been through that, I knew I had nowhere to go but up. Actually, my q total was as good or better than most of the other ops, but the next year, I had the two best hours of our 3A effort. Forgive me if this comes across as bragging.

#### 8 - GO FOR IT!!!

Don't let misinformed preconceptions of how things should be keep you from getting in there. DXing/Contesting is NOT just for the big superstations. At a local DXing convention one of the local big guns invited me to operate from his station in a future contest with the words "if you want to work from a Real station ...." to which I replied "any station that puts out a signal is a real one." I appreciated his offer, and someday will take him up on it, but he got my point. America's Cup racing does not diminish the value of local regatas.

#### 9 - There is always more to learn.

If I think I have arrived, it is certain that I haven't. Education is the process of moving from unconscious ignorance to conscious ignorance, which means, if I am better educated than someone, I have a clearer appreciation than they of how dumb I am.

Keep pushing your limits. I think the reason most cw qso's are limited to the rig/antenna etc. format is because people, myself included, are afraid of looking foolish by not showing they don't understand a more sophisticated vocabulary. If we can take charge of our fear, and make it safe for other's to be able to say ... .-. .. .- --. -. .--. .... , we will probably make faster progress.

I don't think that this is what you had in mind when you posed your question. This is looking a lot like "ZEN and the art....", but in my view, people progress faster when we emphasize why we do what we do rather than just the mechanics of what we do.

cheers, Paul

VE7CQK

email: paul1@wizard.ucs.sfu.ca

-----  
Date: Thu, 14 Aug 1997 00:09:10 -0500 (CDT)  
From: Raventhorne <jelder@ix.netcom.com>  
To: cebik@utkux.utcc.utk.edu, qrp-1@Lehigh.EDU  
Subject: [24861] Antenna Question  
Message-ID: <2.2.16.19970813215953.2a1f55b6@popd.ix.netcom.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 03:42 PM 8/10/1997 -0400, L. B. Cebik wrote:

>Sorry to bother all those to whom this is irrelevant, but I had no way to  
>extract a list of direct mail addresses from the 750 messages in my inbox,  
>a good number of which contain questions and comments calling for reply.

Here's # 751 (heh heh heh), so I don't expect a reply that is anything at  
all like immediate.

1. I have heard that if you elevate a vertical and its radials, the ground  
losses are reduced--the efficiency goes up. Does it matter if the radials  
slope to ground level?

2. If you shorten an antenna, the radiation resistance goes down, and ohmic  
resistance and ground losses account for more of the power fed to the  
antenna--the efficiency goes down.

QUESTION: Is it better to raise a shortened antenna or to lengthen it by the  
same amount?

Here are a few cases that come to mind:

A. 20' helically wound 160m vertical elevated 10 feet vs. a 30' helically  
wound 160m antenna on the ground, assuming the same number of radials for  
each antenna.

B. 20' 40m vertical, base loaded (ie SLV) up 10 feet vs. a full 1/4  
wavelength 40m antenna on the ground.

C. Antennas from C, loaded for 80m.

D. 16.5' vertical elevated 10 feet vs. 25' vertical at ground level on 40m.

Is there some trade off that comes at some fraction of a quarter wavelength  
(ie When the antenna exceeds 1/x wavelength, it is >> efficient on the  
ground than one elevated y feet and y feet shorter)?

I know you're busy, so whenever you get a chance to answer my curiosity  
will be just fine.

tnx & 72,

John

@~~~

@ John Elder, Ko6TS

@ PHROG (Pagan Ham Radio Operators' Guild)

@ Box 232, El Segundo, CA 90245

@ Reunite Gondwanaland!

-----  
Date: Thu, 14 Aug 1997 00:42:58 -0500 (CDT)  
From: KG0ZT <pugrad@millcomm.com>  
To: "QRP-L --> Post to list" <QRP-L@Lehigh.EDU>  
Subject: [24862] France (or territory) I hope... rather than bootlegger  
Message-ID: <Pine.GS0.3.95.970814003206.25790A-100000@midas.millcomm.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanks to all who responded to my inquiry about the "F\_\_" prefix.

Contact (broken) was on 20 meter CW on 14.60 mhz at 1630 UTC on 8/5/97 in  
response to my CQ (at 5 watts to a dipole oriented N/S).

Signal was fluttery and then faded away. This makes me think it was for  
real... but I've been fooled before.

Again thanks to all who responded... 72 Dave - KG0ZT

```
*****
*
* 72 / 73 KG0ZT Dave Cary Rochester, MN
* ARRL VE QRP-L # 979
*
* pugrad@millcomm.com
*
*****
```

-----  
Date: Wed, 13 Aug 1997 21:55:00 -0800  
From: JLarsen@alascam.att.com  
To: qrp-l@Lehigh.EDU  
Subject: [24863] AL7FS in Skagway, Alaska - Gives it up.  
Message-ID: <3FFF2C3C44B1D011899600A0245821706014@alascamexca.alascam.att.com>  
MIME-Version: 1.0  
Content-Type: text/plain

We have had two days of gusty, 40+ mph winds, bands are not that good out of a 3000 foot deep canyon and my antenna quit working. Tried a dipole...it stunk.

I think I will just sit back for the last 3 days here and read my books on acupressure, craniosacral therapy and somatoemotional release. More relaxing. :-)

Thanks to all who tried to listen for me. N6MM seemed to have a lock on my station with his OHR-400 at 5 watts. He must have a 6 element 40 meter beam at 100 feet or maybe even higher. :-)

I'll be on QRP-L via the web digest and also via email. I will have to settle for the vicarious type of QRP experience.

73,  
Jim  
AL7FS  
ARQRP #123

-----  
Date: Thu, 14 Aug 1997 02:00:32 -0500  
From: "John Kemker" <kemkerj@xyzzy.net>  
To: qrp-l@Lehigh.EDU  
Subject: [24864] Re: Anyone replace an OMNI VI crystal oven?  
Message-ID: <199708140608.CAA21768@www.xyzzy.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

On 13 Aug 97 at 15:09, Clark Savage Turner WA3JPG scribbled:

> Hello all ...  
>

> My newfound OMNI VI was a bargain...yep. It is beautiful, was  
> cheap, and it drifts pretty constantly on all bands. I suspect  
> the crystal oven is running away or the crystal is bad in there.  
>  
> Anyone ever replace one of these? Know the approx cost? I would  
> replace it quickly if cheap, would take my time testing carefully  
> if expensive, would wait for Ten Tec service if it is complex.  
>  
> Any hints or suggestions welcome, if any of you guys have done  
> this.  
>  
> Clark  
> WA3JPG  
>  
>

>From my experience with Ten-Tec, I'd give them a call, tell them what  
you think might be the problem and ask how much the replacement is.  
They will probably ship you a new one with an invoice right away.  
Ten-Tec believes in the idea that a Ham should be able to repair his  
rig himself with a little troubleshooting help. That's why I have a  
Scout and a 6m transverter and want an Omni VI when I can afford one  
(and have the privileges to use it!)

73!

=====

73 de KF4MZD (John Kemker)  
kemkerj@xyzzzy.net  
Grid Square: EM73vt  
QRP-L Number: 974  
SMIRK Number: 6185  
TRA #2499, TARA #002

-----

Date: Thu, 14 Aug 1997 07:11:59 -0700  
From: Harvey Hetland <n6mm@earthlink.net>  
To: JLarsen@alascom.att.com  
Cc: qrp-l@Lehigh.EDU  
Subject: [24865] Re: AL7FS in Skagway, Alaska - Gives it up.  
Message-ID: <33F3122F.400D@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

6 elements at 100 feet! Boy do I ever wish. I'd run QRPpppppp, which



ZL1AM0 accuses me doing anyway. Only a small 2 element vintage, 25-year old Moseley 402 at about 60 feet. Enjoy the reading.

73, Harvey, N6MM

"N6MM seemed to have a lock on my station with his OHR-400 at 5 watts. He must have a 6 element 40 meter beam at 100 feet or maybe even higher. :-)" --- AL7FS

-----  
Date: Thu, 14 Aug 1997 00:39:04 -0700 (PDT)  
From: Jim W7LS <w7ls@brigadoon.com>  
To: qrp-1@Lehigh.EDU  
Cc: bill@techline.com, stuw@ricochet.net  
Subject: [24866] Flamboyant chip removal (safe, too)  
Message-ID: <199708140739.AAA18539@siskiyou.brigadoon.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Just a quick note to pass on a technique I learned a few years back. I think it's pretty slick, too.

I removed a bunch of soldered-in ram by putting the motherboard into a plain old shop vise, so the board is above the vise, component side being away from you. Put a piece of old carpet or pink foam packing (static free) behind the vise, extending upward, essentially parallel to the motherboard.

HA! Almost ready for the fireworks!

Now, take a heat stripper for paint removal or a heat gun (for you well-to-do types) and heat the motherboard and heat the area you are interested in. Do this carefully, watching for the solder to turn liquid. At that exact moment, take your finger and pull the motherboard back toward you and....

WHAMO! Let that sucker go!

You will fling any number of chips and whatever else at the carpet or foam. This includes the dip chips that were put in by slightly bending the leads. Jeez, this is fun....

Do the chips survive?

Yep.

This method might be termed "Ballistic Chip Removal". As a footnote,

the guy who taught me this was in the computer business and made a handy living by scrounging ram and building systems to sell at reduced prices. You can even use the bare board for a frisbee..... Naw, not really... :-)

73 de Jim, W7LS

-----  
Date: Thu, 14 Aug 1997 05:19:20 -0400  
From: Mel Evans <MelEvansGM6JAG@compuserve.com>  
To: "qrp-1@lehigh" <qrp-1@Lehigh.EDU>  
Subject: [24867] Digest 816  
Message-ID: <199708140519\_MC2-1D1B-5BFD@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Disposition: inline

Hi guys,

I trust that the quote of digest 816 \*IN FULL\* during digest 817 was a genuine mistake. This of course doubled the size of the digest version of the list.

Download time to-day was in excess of 11 minutes due to the above.

As a point of interest, you should all subscribe to the digest version of the list occasionally, it can be shocking to see up to 100 lines of an original message quoted with a two or three word addendum along the lines of "I agree entirely". When two or three subscribers do this in succession, it becomes horrendous!

If you don't take the digest version, but delete all you're not interested in, you just don't notice how much this happens. I estimate the list could be 40% smaller each day if the quotes were left out. Anyone who wants to look up a past thread can easily do so in the archives.

Grouse over, but I'll take any other whisky that's going!

72 and 73 de Mel GM6JAG

Edinburgh, Scotland UK  
Home of the last HW9

-----  
Date: 14 Aug 97 06:11:08 EDT  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>  
Subject: [24868] Thanks Everyone  
Message-ID: <970814101108\_70511.3041\_IHD52-1@CompuServe.COM>

Gang:

Several fellow hams responded to my plea for help w/unsubscribing, and I appreciate each one. Wouldn't you know it--couldn't locate the original reply from the server when I actually needed it?

But all is well now. See everyone in a couple of weeks.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 mn-qrp 19 nj-qrp 69 ak/qrp 139  
ARCI 9398 ARRL WAS 48/38 DXCC 52/39 <><

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Sierra OMNI V Argosy 525 Argo 515 HW-9 Explorer II-40 SW-30  
Norcal 40a Emtech 40-40 SW-40 TT 1340 A&A Gary Breed 30 49er  
38S Mercury Paddles MFJ 259 MFJ 941D TNT/2 Windom SLV/W6MMA  
HB G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

-----  
Date: Thu, 14 Aug 1997 08:15:41 -0400 (EDT)  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
To: towertalk@contesting.com, QRP-L List <qrp-l@Lehigh.EDU>, tenten-l@Lehigh.EDU  
Subject: [24869] Horizontal phased arrays  
Message-ID: <Pine.SOL.3.94.970814075608.5554G-100000@utkux4.cas.utk.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanks to the kindness of Siegfried Rambaum, KB2YVC/DE8FG0, I have finally acquired enough data on the HB9CV phased array to do an initial evaluation of its potential.

The HB9CV 2-element array is a variant on the ZL-Special that provides reasonably high feedpoint impedances through the use of a T or gamma match with single (not folded) dipole elements. When designed for a compromise between gain and f-b (rather than using max f-b as a sign of perfect phasing), users claim the antenna equals or exceeds 3-element Yagi performance.

The notes at my site start by exploring what standard we should use for 3-element Yagi performance, along with maximum 2-element Yagi performance. The HB9CV, with dimensional formulas from a standard German Antennenbuch are presented, with some tentative modeling (although the complete assembly exceeds the limitations of all the programs) of performance limits. Then, just for fun, there is an alternative phased array that I generated that gives full coverage of 28-29 MHz with 50 ohms feed Z and performance as good or better than the HB9CV without the need for Tees or gammas. However, it does need some series capacitance and uses elements about 0.7 wl long. You can get a max gain of over 7.7 dBi free space, about 1/2 dB lower than a quite good 3-element Yagi and over a dB greater than a typical 2-element reflector-driven-element Yagi at their design centers. However, centering the antenna at a gain of about 7.1 or 7.2 dBi free space gives the best compromise between gain and f-b, while allowing a wide band 50-ohm feed.

Since most folks think of 1/2 wl as some kind of magic, I doubt anyone will build the alternative phased array, but it makes an interesting counterpoint to the HB9CV, which more US hams ought to at least know about. If I figure out ways to more reliably model all the versions of the HB9CV, I'll amend the notes accordingly. My thanks to Siegfried for sending me the extensive information on the antenna.

Hope the notes prove useful--or at least interesting.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)(423) 974-7215
1434 High Mesa Drive	/	\	\	----	/	---	(Hm) (423) 938-6335
Knoxville, Tennessee	/\	\	\	/	/		(FAX)(423) 974-3509
37938-4443 USA	/	\	\				cebik@utk.edu
URL: <a href="http://funnelweb.utcc.utk.edu/~cebik/radio.html">http://funnelweb.utcc.utk.edu/~cebik/radio.html</a>							

-----  
Date: Thu, 14 Aug 1997 10:03:26 +0100  
From: "Bob Duckworth" <wb4mnf@atl.org>  
To: <daniel@pandora.lugs.org.sg>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [24870] Re: WARNING: Removal of chips from old boards.  
Message-ID: <199708141259.IAA19956@atl.org>

I use a heat gun.  
It's like a hair dryer but more heat and less air.  
Can do a couple of square inches at a time.  
Mostly parts are removed as needed here.  
The board is a good place to store them :-)

The trick is to sharply rap the edge of the board on the workbench. Almost all the solder comes off and it's easy to straighten pins and remove the parts. Hold the edge of the board with 'vise-grip' pliers.

Use a small 'duckbill' jewelers pliar to straighten the pins so as not to knick them. Jewelers pliers have smooth jaws.

On the rare occasion of removing a bunch of stuff at once, an old fashioned, radiant, electric heater does a great job. Propane or natural gas radiant heater should work as well. When the solder flows, wait another 10 seconds or so and rap the board.

Works great.

Another money saver is casting your own aluminum. Have done for the boat and am planning to do some antenna parts. Lots of good info floating around [www](http://www.rec.metalworking.com) and [rec.metalworking](http://rec.metalworking.com). Surplus beer cans are a good strong alloy and pleasurable to collect for a project. Old floppy drives are O.K. if piece doesn't have to be as strong.

-bob  
wb4mnf

-----  
Date: Thu, 14 Aug 1997 14:33:49 +0100  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: MelEvansGM6JAG@compuserve.com

Cc: qrp-1@Lehigh.EDU  
Subject: [24871] Re: Digest 816  
Message-ID: <199708141333.0AA19246@chuck.dallas.sgi.com>

Mel et.al.,

Thanks for the feedback to the group on just what is happening.

I try to explain to guys in private email how important it is NOT to repeat or quote previous messages. We all have sharp minds in this group. We can remember from day to day what has been posted here. The same for reducing signature files to just a few lines.

But I am but a small voice among the throng of many.....

So for the gang at large, please do what you can to read the instructions when you signed up in the welcome.txt file that was sent to you. It does have a lot of useful information and will save you a lot of headaches on down the line.

FYI

Chuck Adams K5FO CP-60 adams@sgi.com  
<http://reality.sgi.com/adams/index.html>  
K5FO's online Morse Code course --- see the home page  
WIMPS: Qs=053 30m=48 17m=5 12m=0 States=26/05/00 DX=04/00/00 QSLs=022

-----  
Date: Thu, 14 Aug 1997 07:42:11 -0600  
From: Greg Newberry <newberry@cyberhighway.net>  
To: QRP-L <qrp-1@Lehigh.EDU>  
Subject: [24872] Straight Key Selection  
Message-ID: <33F30B33.248D@cyberhighway.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi,

I've been a ham for 21 years now and have used the same straight key from Radio Shack for about 15 years. It's not great but it must be ok as I haven't replaced it yet. What I'd like to know is what are some of the good (nice feel and adjustable) straight keys out there that I could get? I'm not looking for a collector piece at this point, just a good key.

Any used ones for sale?

Thanks

--

```
-----  
| Greg Newberry      newberry@cyberhighway.net |  
| WB7DUO QRP-L #760 |  
| NorCal #1899      |  
-----
```

-----  
Date: Thu, 14 Aug 1997 09:18:11 -0500  
From: bill@taprov.com (Bill Cleveland)  
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-l@Lehigh.EDU>  
Subject: [24873] Thanks for the suggestions!  
Message-ID: <01BCA892.FD66DE00.bill@taprov.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Boy the response on what QRP kit to start with was  
overwhelming. I want to thank all in the group that  
replied to me question, and hopefully the UPS strike won't  
last too long.

Thanks.

=====

73 de

Bill Cleveland, KR4TZ      GRID: EM50vp QRP-L# 1184 ARS# 289  
Mobile, AL                ARRL MEMBER / AL Section ASM

email: bill@taprov.com

Co-founder of the TriState Coastal Emergency Net -- NWS  
Mobile

Member and trustee of the Mobile Amateur Radio Club

Don't forget! Mobile ARC hamfest - Sept 27 - 28

-----  
Date: Thu, 14 Aug 1997 08:20:46 -0600

From: Larry East <w1hue@amsat.org>  
To: qrp-1@Lehigh.EDU  
Subject: [24874] Geezzz...  
Message-ID: <2.2.16.19970814142046.1f4776d0@eloi>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Quoting the complete contents of a long post is bad enough, but quoting an entire digest?? Geezzz, folks PLEASE learn how to use the editor in your mail reader!! :-( :-(

-----  
Date: Thu, 14 Aug 1997 09:49:08 -0400  
From: "Bob Kellogg" <ae4ic@nr.infi.net>  
To: <daniel@pandora.lugs.org.sg>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [24875] Re: WARNING: Removal of chips from old boards.  
Message-ID: <199708141446.KAA27985@mh004.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Gang,

I'm not ashamed to report that I do it the old fashioned way. With a soldering iron and a screwdriver, removing one lead, then one component at a time. Rarely ruin a part in the process.

This method allows me to be selective. When resistors cost 1 cent apiece, it's pretty hard to justify much time spent recovering them -- especially when the leads are short.

No worries about toxic fumes, no burned fingers, just another approach. -- and several boxes full of salvaged parts!!

CUL,  
Bob Kellogg, AE4IC, Greensboro, NC  
Probably, but not nececelery. -- Benny Hill

-----  
> Hi. I'd just like to point out that removing chips from boards is NOT a  
> recommended practice if you don't know what you're doing. Do NOT put  
> them  
> in your oven as the danger of noxious gasses and fire from the plexiboard  
> is very high.



-----  
Date: Thu, 14 Aug 1997 11:06:39 EDT  
From: w4bws@juno.com (Donald E Sanders)  
To: grudin@pacific.vdbs.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [24876] Re: K5F0/7  
Message-ID: <19970814.111602.5111.3.W4BWS@juno.com>

Hi gang, Our local ham club has standardized all of our equipment power connections. In case of emergency, hurricanes and such, we can take any rig to any location and interconnect power sources. It is handy in the home shack and mobile since you can move rigs around and bring mobile inside to operate or check out.

We chose the Molex 2 pin, 20 amp connectors available at Radio Shack for 99 cents each, and several other places, and put the hot (+12 volt) on the pointed side. Yes for the QRP and 50m watt vhf rigs this is a over kill but it standardizes everyone.

And I have made the power output adapters on all my power supplies with parallel connectors using the smaller 8 or 10 amp connectors (2 each per package at RS). This allows HF and VHF to plugin at same time if necessary. I have the smaller connectors on several low power rigs i set up before the club decided on the larger cables. So I made several interface cables with the small connector on one end and 20 amp on the other so the low power rigs could be plugged into the big power connectors when necessary.

For the RF connectors we have the UHF to BNC and BNC to UHF series adapters and have a couple with each rig so we can interface easily to other antennas and feedlines.

Thanks fior the BW abd hopefully this info will be helpfull to others.  
DON w4bws@juno.com

On Wed, 13 Aug 1997 21:15:28 -0700 Jeff Grudin <grudin@pacific.vdbs.com> writes:

>> I had grabbed the 1.3Ahr Gel-Cell that had a  
>> power cord and barrel connector on it. Wouldn't you know  
>> it was the wrong one?

>

>Well I for one am glad to know this kind of stuff happens to others.  
>This weekend I went to my boat, planned to try some WAE contest. Went  
>through my checklist and had all the stuff. Brought my new antenna to  
>try it out. Antenna had a BNC and rig a PL259. No radioshack at  
>anchor  
>20 miles from anywhere.

>

>Oh well, got lots of reading in.

```

>--
>73 de Jeff AC6KW
>grudin@vdbbs.com
>
>-----
>QRP-L #16 Private Practice : Companion Animals and
>Exotics
>Norcal QRP #1292 Ocean Animal Clinic / Cat Clinic of
>Santa
>Cruz
>
> Santa Cruz,
>California
>
>
>
> QRP'ers do it with less energy (but lot's of enthusiasm)!
>-----
>
>

```

```

-----
Date: Thu, 14 Aug 1997 11:06:39 EDT
From: w4bws@juno.com (Donald E Sanders)
To: SSLYON@worldnet.att.net
Cc: qrp-l@Lehigh.EDU
Subject: [24877] Re: Where is FU2MM from?
Message-ID: <19970814.111602.5111.4.W4BWS@juno.com>

```

You mean someone is copying the old (1950-60) use of 5U4GT call sign to see if a dead band was open?

```

On Thu, 14 Aug 1997 04:20:50 +0000 SEAB&SHARON LYON
<SSLYON@worldnet.att.net> writes:
>Until recently the seldom heard FU2 prefix was usually
>followed by an expletive, in response to some actual or perceived
>affront. References to the recipients lineage, personal hygiene
>or I.Q. were considered appropriate. In recent times, however, the
>term (once common only in CB exchanges) has crept into Ham
>Radio, first to 75M, then 40, 20, and now even into CW exchanges.
>Gov't. sponsored studies have failed to reveal correlation to
>sunspots, greenhouse gas, skirt length, or Superbowl winners.
>A reported relationship to the No-Code License Movement, (NOCOLIMO)
>is thus far unconfirmed. =s=
>.....
>>Reply-To: pugrad@millcomm.com
>>Sender: owner-qrp-l@Lehigh.EDU
>>From: KG0ZT <pugrad@millcomm.com>

```



Date: Thu, 14 Aug 1997 10:30:13 +0000 (GMT)  
From: Jim Glover <psykey@okcforum.org>  
To: qrp-1@fidoi.cc.lehigh.edu  
Subject: [24878] 1750 meters--VLF QRP band!  
Message-ID: <199708141030.KAA07277@okcforum.org>  
Content-Type: text

Hi, everyone!

First, let me say wow...the responses to my questions about CW operating procedures have been vast, varied, and helpful. I'm hoping to find time to make a post summarizing all the good advice I've received.

As I was poking around for information on the ARRL e-mail infomail, I ran across a file detailing the spectrum allocations from VLF through HF. I was keeping my eye open for references to a VLF band I'd seen described once in an experimenter's magazine. And yes, it's listed there. This is what they say about that slice of the spectrum:

Low end	High end	Allocation
-----	-----	-----
160	- 190	Fixed Service (Power Companies, GWEN) 1750 Meters FCC allows unlicensed transmissions under 1 watt

It's been many years since I read that magazine article, and the details have all gone fuzzy. So, I thought I'd see if anyone here knows more about the band. Is there much activity on it? What can be done at 160-190 KHz with under a watt? What kind of antenna is required? (I assume dipoles would be out of the question for all practical purposes.) Are there published circuits, etc.?

I do remember some of what I read in the magazine about it. Of course, the propagation is best on cold winter nights, and I gather there's no point in bothering to play in the summer. Although no license is required, a lot of the folks on the band are hams, and they usually use their ham callsigns and procedures. It seems I remember the author mentioning that contacts over distances up to 100 miles are not unusual.

Anyone know more?

--Jim

-----

Date: Thu, 14 Aug 97 08:33:00 PDT  
From: Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>  
To: qrp-l@Lehigh.EDU  
Subject: [24879] Re: Antenna Books

I just completed an antenna design course at Arizona State Univ.  
It was taught by Dr. Balanis from his book, "Antenna Theory", 2nd  
Edition, (C) 1997 by John Wiley & Sons. It has everything you  
always wanted to know about antennas (except J-poles) :-)

73, Cecil, W6RCA, OOTC

-----  
Date: Thu, 14 Aug 1997 11:53:52 -0400 (EDT)  
From: Chris Cartwright <ccart@dns.vidtel.com>  
To: QRP Reflector <qrp-l@Lehigh.EDU>  
Subject: [24880] Re: 1750 meters--VLF QRP band!  
Message-ID: <Pine.LNX.3.93.970814114241.1013B-1000000@dns.vidtel.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 14 Aug 1997, Jim Glover wrote:

```
> Low end      High end    Allocation
> -----      -
> 160          - 190       Fixed Service (Power Companies,GWEN) 1750 Meters
>                                     FCC allows unlicensed transmissions under 1 watt
> Anyone know more?
```

There is an antenna + feedline restriction, 50' if I remember correctly.  
Of course that could be meters. And there is a good deal of activity in  
winter from what I've read. There are MCW schemes and some sort of  
synchronos TX that uses time refereces from network TV stations to (no pun  
intended) sync things up. I don't think there is any restriction, if you  
have the room, on RX antennas. The G-landers have a 73Khz band and are  
bound by ERP of 1? maybe 10? watts?

A good place to start looking would be [www.aol.com/lwcanews/index.htm](http://www.aol.com/lwcanews/index.htm),  
I haven't played "down there" yet, but just as soon as I get some free  
time... and these kits built... and get WAS out of the way...

Seems like a good place to get non-hams started in code, 72

```
-- Chris Cartwright,   Technical Engineer |      ccart@vidtel.com      --
-- N3XRV               QRP WAS 17/9 (w/c) |      ccart@erols.com      --
```

-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? | http://dns.vidtel.com/~ccart --  
-- WIMPS Q's=04 30M=04 17M=00 12M=00 STATES=03/00/00 DX=00/00/00 QSL's=00 --

-----  
Date: Sat, 09 Aug 1997 09:41:19 -0700  
From: Vic Rosenthal <rakefet@rakefet.com>  
To: qrp-l@Lehigh.EDU  
Subject: [24881] [Fwd: TenTec QRP For Sale]  
Message-ID: <33EC9DAF.3B11@rakefet.com>  
MIME-Version: 1.0  
Content-Type: multipart/mixed; boundary="-----271D7E167295"

This is a multi-part message in MIME format.

-----271D7E167295  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The following appeared on USENET. I have no connection, etc. Just forwarding.

Vic K2VCO

-----271D7E167295  
Content-Type: message/news  
Content-Transfer-Encoding: 7bit  
Content-Disposition: inline

Path: alpine.psnw.com!newsgod.santaclara.agis.net!su-news-hub1.bbnplanet.com!cpk-news-hub1.bbnplanet.com!news.bbnplanet.com!infeed2.internetmci.com!newsfeed.internetmci.com!in2.uu.net!206.65.248.4!dialnet!not-for-mail  
From: "Kelly Ellison" <kelman@dialnet.net>  
Newsgroups: rec.radio.swap  
Subject: TenTec QRP For Sale  
Date: 9 Aug 1997 03:20:43 GMT  
Organization: DialNet USENET News Service.  
Message-ID: <01bca484\$0c53fb40\$8df941ce@pentium-pc>  
NNTP-Posting-Host: rt-aurora-ttyr11.dialnet.net  
X-Newsreader: Microsoft Internet News 4.70.1161

Argosy 525 with digital readout. A Classic QRP rig. Some scratches and nicks.

Mic and Manual included. Price \$400.00. For more information, inquire at kelman@dialnet.net

Thank you,

Kelly Ellison  
WB0WQS  
Aurora, Missouri

-----271D7E167295--

-----  
Date: Thu, 14 Aug 1997 09:02:45 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: JALexan706@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24882] Re: Changing E-mail..  
Message-ID: <33F32C25.4A54@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

To unsubscribe from qrp-l do the following:

- 1) Make sure you have the correct email name in netscape that you had when you subscribed.
- 2) send email to the [LISTSERV@LEHIGH.EDU](mailto:LISTSERV@LEHIGH.EDU), Not the remailer address.
- 3) No subject in email. In the body of your message type UNSUBSCRIBE QRP-L

and you are done unsubscribing.

Then to subscribe, make sure you are using your new email address and subscribe with <mailto:LISTSERV@LEHIGH.EDU> again and in the body of the message:  
subscribe QRP-L Firstname Lastname callsign

That's it!  
Best to you!  
-Ed Loranger  
--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.  
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----  
Date: Thu, 14 Aug 1997 09:10:36 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [24883] Re: K5F0/7  
Message-ID: <33F32DFC.5F66@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Chuck, hope you recover from your injury soon.

Sorry you couldn't operate, but on the bright side,  
many of us were at the helm and there were some  
qrp-1 member qso's as a result.

It was an exciting hunt anyway.  
-Ed Loranger

--  
72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
HW-8;OHR-100, Pixie2, Johnson Viking II w/VF0.  
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----  
Date: Thu, 14 Aug 1997 09:28:11 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [24884] Re: learning CW operating procedures (long)  
Message-ID: <33F3321B.286@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Paul Erickson wrote:

<Snip of good philosophy>

> 4 - Don't be afraid of looking like a fool.

>

> Don't let a lack of knowledge keep you from jumping in there  
> and giving it your best shot. Those who would look down on you  
> for doing your best aren't worth worrying about. Those whose  
> opinion is worth considering will understand.



>

Extremely well put! A quote I will save.

<Snip of good philosophy>

> cheers, Paul

> VE7CQK

> email: paul1@wizard.ucs.sfu.ca

Cheers Back!, Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.

QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----  
Date: Thu, 14 Aug 1997 09:23:37 -0700

From: Clark Savage Turner WA3JPG <turner@safety.ics.uci.edu>

To: tentec@contesting.com

Cc: qrp-l@Lehigh.EDU

Subject: [24885] OMNI VI crystal oven

Message-ID: <17134.871575817@safety.ics.uci.edu>

costs about \$50. Now I will go in there with my frequency counter and carefully determine whether it is the oven/crystal that is drifting or the BFO. Anyone ever have to deal with either of these with any tips? I plan to measure the freq of the output of the 10 MHz master oscillator over an hour or two at intervals of about 10 minutes to see what that is doing. I figure that ought to tell me enough of the story to get it right.

Clark

WA3JPG

-----  
Date: Thu, 14 Aug 1997 09:50:20 -0700

From: Ed Loranger <we6w@qsl.net>

To: psykey@okcforum.org

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [24886] Re: 1750 meters--VLF QRP band!

Message-ID: <33F3374C.4884@qsl.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Good Morning Jim.

Antenna Design and other pertinent information is available  
at the following web locations:

LOWFER:Longwave Home Page: <http://users.aol.com/lwcanews/index.html>

LOWFER:Receiver/Antenna Library:  
<http://users.aol.com/lwcanews/rcvg-lib.htm>

And interesting Stuff on ELF and VLF, including email reflector:  
Taos Hum subsonic ELF low frequency hum noise:  
<http://www.eskimo.com/~billb/hum/hum.html>

V-E-R-Y Interesting reading.

-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.  
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
<mailto:we6w@qsl.net> <http://www.qsl.net/we6w>

-----  
Date: Thu, 14 Aug 1997 10:00:59 -0700 (PDT)  
From: Dana Myers K6JQ <[myers@utopia.West.Sun.COM](mailto:myers@utopia.West.Sun.COM)>  
To: [turner@safety.ics.uci.edu](mailto:turner@safety.ics.uci.edu)  
Cc: Low Power Amateur Radio Discussion <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [24887] Re: OMNI VI crystal oven  
Message-ID: <Roam.SIMC.2.0.6.871578059.19430.myers@utopia>  
Content-Type: text

Clark wrote:

> costs about \$50. Now I will go in there with my frequency  
> counter and carefully determine whether it is the oven/crystal  
> that is drifting or the BFO. Anyone ever have to deal with  
> either of these with any tips? I plan to measure the freq of  
> the output of the 10 MHz master oscillator over an hour or two  
> at intervals of about 10 minutes to see what that is doing. I  
> figure that ought to tell me enough of the story to get it  
> right.

How stable is your frequency counter? Since the master oscillator  
is at 10MHz, I'd be more inclined to beat it with WWV to get an

idea of the overall stability. Of course, if you don't know which side of WWV you're on, you can't tell whether it is drifting up or down, but that may not be a problem if it proves to be very stable.

Dana K6JQ  
Dana@Source.Net

-----  
Date: Thu, 14 Aug 1997 10:34:19 -0700 (MST)  
From: Bob Hightower <ki7mn@dancris.com>  
To: we6w@qsl.net  
Cc: qrp-l@Lehigh.EDU  
Subject: [24888] Re: K5F0/7  
Message-ID: <199708141734.KAA01413@dancris.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 09:10 AM 8/14/97 -0700, you wrote:  
>Hi Chuck, hope you recover from your injury soon.  
>  
>Sorry you couldn't operate, but on the bright side,  
>many of us were at the helm and there were some  
>qrp-l member qso's as a result.  
>  
>It was an exciting hunt anyway.

A real HF snipe hunt :^)

-----  
Date: Thu, 14 Aug 1997 11:42:07 -0600  
From: scicior@uswest.com (Steve Ciciora)  
To: kreinbd@ccgate.dl.nec.com, qrp-l@Lehigh.EDU  
Subject: [24889] custom xtal osc.  
Message-ID: <199708141742.LAA14863@sp5-316.uswc.uswest.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Md5: es1hlcjAfuaZUMKuX/mgdA==

I had Comclok custom make me a TTL xtal osc. for \$15 (10ppm). Took 3 weeks and no minimum order. Took credit cards over the phone, and the engineers there were very helpful. Check out their web page at:

<http://www.calcrystal.com/>  
They also make custom xtals, etc.  
Steven Ciciora KB0PJF

Gang,

Judging from the many responses I received, I'd say the little Fire Ball transmitter was a big success.

I'm wondering if the company/person who kitted them is still around? I've looked at TTL crystal oscillators and the only popular ham frequency available is 28.322 MHz. All others are outside the ham bands.

Thanks for the interesting stories. Seems like those who've used them really got a big kick from working the world with mere milliwatts. I've yet to do any great things on 10 meters, but everyone says it is nothing short of miraculous in the peak years.

BTW - 17m showing signs of life. Worked NH from TX with 4 watts last night. Where the heck is Cycle 23?

Impatiently waiting for the sun to juice .....

73 de Dave NR3E/5  
nr Dallas, TX  
qrp-1 #25, ARRL  
WIMPS: Qs=056 30m=041 17m=10 12m=05 States=027/06/04  
DX=02/01/01

-----  
  
-----  
  
Date: Wed, 13 Aug 1997 19:21:10 +0100  
From: "Frank, G3YCC." <g3ycc@gqrpclub.demon.co.uk>  
To: gqrp-1@blacksheep.org, qrp-1@Lehigh.EDU  
Subject: [24890] Help VU  
Message-ID: <z56o2DAWsf8zEwg\$@gqrpclub.demon.co.uk>  
MIME-Version: 1.0

Can anyone help with the QSL info for UE6ADE please. I didn't work him, although I have QSOed VU before. Info for a QRO friend!

Thanks.

Frank, G3YCC QRP Club 042

Packet: G3YCC@GB7HUL

QRP Web Page: <http://www.gqrpclub.demon.co.uk>

-----  
Date: Thu, 14 Aug 1997 17:16:57 +0100  
From: "Juan Antonio =?iso-8859-1?Q?L=F3pez?= Delgado, EA8QJ, EA-QRP # 196"  
<jalopezd@arrakis.es>  
To: qrp-1@Lehigh.EDU  
Subject: [24891] EA-QRP CLUB Website  
Message-ID: <33F32F79.642B@arrakis.es>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: quoted-printable

Hola a todos, amigos:

Nuestro joven EA-QRP CLUB, ha querido asomarse a la ventana de la Red Internet y ha creado su Home Page, a=FAn en construcci=F3n.

Es por ahora la unica que un Club de QRP presenta en espa=F1ol, (espa=gnol), (espanhol), LENGUA CASTELLANA.

Les invitamos a todos a que nos hagan una visita.

No dejen de entrar en la BIBLIOTECA TECNICA, asi como en otros apartados. Encontraran tambien LINKS de interes.

Queremos que sea una WEB en lengua castellana para todo aquel que la conozca o quiera practicarla.

Hay un apartado para SUGERENCIAS. Enviennos vuestros comentarios y sugerencias. Esta ha de ser la WEB de todos y para todos.

URL: <http://www.arrakis.es/~eaqrp-c>

Un cordial saludo y, hasta pronto.

Juan Antonio Lopez, EA8QJ  
EA-QRP CLUB - Relaciones y Desarrollo  
Mailto: [jalopezd@arrakis.es](mailto:jalopezd@arrakis.es)

-----

EA-QRP # 196, G-QRP # 9055, QRP-L # 1137, AK/QRP # 242

-----  
(CON OMISION DE ACENTOS) =

MZ=90

-----  
Date: Thu, 14 Aug 1997 14:09:31 -0400  
From: Zack Lau <zlau@arrl.org>  
To: qrp-l@Lehigh.EDU  
Subject: [24892] Re: K5F0/7  
Message-ID: <33F349DB.6719@arrl.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Chuck Adams wrote:

>  
> Gang,  
>  
> The plan was to operate from the WY/ID border just east of  
> Jackson WY. Got to the cabin unpacked and started setting  
> up the rig. I had grabbed the 1.3Ahr Gel-Cell that had a  
> power cord and barrel connector on it. Wouldn't you know  
> it was the wrong one? Yep, and Jackson WY does not have a  
> Radio Shack or any other electronics outlet!! I didn't  
> have any alligator clips and wires to do a work around.

I have gear with binding posts and reverse polarity protection for just this sort of problem... Of course, with a homebrew rig you can strip the wires going to the connector and tap into the supply bus with a pair of wire cutters--or fingernail clippers if it comes to that... Being able to improvise is essential for consistently getting a 10 band band station on the air--100 miles from home :-) --Zack W1VT

-----  
Date: Thu, 14 Aug 97 10:45:00 PDT  
From: Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>  
To: qrp-l@Lehigh.EDU

Subject: [24893] Dr. Balanis' Antenna Theory Book

Information on "Antenna Theory, Analysis and Design" by  
Constantine A. Balanis of Arizona State University can  
be had at:

<http://www.wiley.com/college/eng/elec/cg/sales/balanbis.html>

Don't ask me why there is an extra "b" in his name.html.

73, Cecil, W6RCA, 00TC

-----  
Date: Thu, 14 Aug 1997 12:39:14 -0600 (MDT)  
From: "Thomas J. Whalen" <whalen@swcp.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [24894] Batteries FS/Trade  
Message-ID: <Pine.SUN.3.91.970814123539.16871B-1000000@kitsune.swcp.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Have 2 ea. Power Sonic model 12400 12 v 40 amp hr. batteries for sale.  
They are used but work fine. They each weigh 25 lbs and are 6x7x8 in.  
Comes with aluminum carrying bracket. Not backpackable, only for pack  
mule use! Will take offers or trades. Of course, you have to pay  
shipping! 72, Tom WB5QYT

-----  
Date: Thu, 14 Aug 1997 13:26:26 -0700  
From: Vic Rosenthal <rakefet@rakefet.com>  
To: Tom\_Jennings <jennings@eng14.rochny.uspra.abb.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [24895] Re: [Fwd: TenTec QRP For Sale]  
Message-ID: <33F369F2.8D86C213@rakefet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Tom\_Jennings wrote:

>  
> Vic,  
> I can't read the attachment. FYI: it is not a good idea  
> to send the list messages with attachments because many people (like me)  
> won't be able to read it.

I thought that forwarded messages were just text. Apparently not. Also, I don't know if you noticed, but the date on the message was Aug 9! I don't know why it took so long to surface, but I'm sure the guy sold the radio by now. I'm going to post this message to the list as an apology to everyone: I didn't realize that forwarding from usenet was a bad idea, and I won't do it again!

Vic K2VCO

-----  
Date: Thu, 14 Aug 1997 15:05:45 -0600  
From: "Phil, K6LS" <k6ls@qsl.net>  
To: qrp-l@Lehigh.EDU  
Subject: [24896] re:K5F0/7  
Message-ID: <33F36519.34BE@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

remember TQM?? time for a paradigm shift...

If you are in a real bind for a way to put some dc into your rig, you might want to recall that most department stores sell adaptors for cell phones, most come in an assortment of dc plug sizes like the ones you find common in our qrp rigs..

--

73 de Phil, K6LS/0  
QRP-L #612  
k6ls@qsl.net <or> k6ls@amsat.org  
DM79or, Arapahoe County, Colorado  
ITU zone 7, CQ zone 4  
<http://www.qsl.net/k6ls>

-----  
Date: Thu, 14 Aug 1997 16:07:47 -0500 (CDT)  
From: Bill Howell <bhowell@mail.utexas.edu>  
To: qrp-l@Lehigh.EDU  
Subject: [24897] Re: Rohn Address  
Message-ID: <199708142107.QAA04873@mail.utexas.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"



Bob, WB2DHK wrote:

\*\*\*\*\*

Does anyone have an email address or phone number for Rohn towers? Doesn't seem to be in their ads! Thanks,

\*\*\*\*

Bob, try:

<http://www.rohnnet.com/Index.htm>

There are email addresses for various Rohn folks listed.

Bill Howell  
University of Texas at Austin  
Performing Arts Center  
Electronic Maintenance  
N5ALO QRP-L #415

belief preceeds experience

-----  
Date: Thu, 14 Aug 1997 17:12:12 -0400 (EDT)  
From: Bernie Doehner <bad@uhf.wireless.net>  
To: qrp-l@Lehigh.EDU, homebrew@qsl.net  
Subject: [24898] for sale stuff. and cheap microprocessor crystals.  
Message-ID: <Pine.BSF.3.95.970814170802.4890A-100000@uhf.wdc.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Gang:

First an appology to those who replied about the Rainbow, LDG tuners, and the Cascade. I am behind the eight-ball to get a school project done. I hope to get to replying to each of you by beginning of next week.. Sorry!

Related to my "emergency" is the need to modify some LO's from 27.4 to 25.49 and 24.49 MHz. I have looked in Mouser, and some of the local surplus stores, but could find nothing even close.. This is part of a PLL scheme, so it doesn't have to be exactly 25.49 and 24.49.

Do any of you of a good source for PLL crystals that I might have better luck with?

Chaning PLL crystals is only one scheme, I also have a mixing mod that will do the same, but I first want to see if I can actually find the

crystals without having to special order..

Thanks a bunch.

Bernie nu1s

-----  
Date: Thu, 14 Aug 1997 21:09:07 +0000  
From: Sandy W5TVW <ebjr@worldnet.att.net>  
To: qrp-1@Lehigh.EDU  
Subject: [24899] CW operating procedures (more)  
Message-ID: <19970814210906.AAA25736@LOCALNAME>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hello gang,

As a long time amateur and QRP'er (at times), I find most of the group has fairly

decent operating practices. I do have one BIG gripe:

I call : CQ CQ CQ DE W5TVW W5TVW W5TVW K

And someone one or near the frequency sends: WA2ABC.....

Is he calling me? Is he testing? Does he want my frequency? Certainly this IS NOT a DX station pileup! How do I know he is calling me? I repeat the CQ call again, only for him to just send WA2ABC.... (Again!)

Moral: When calling a station, PLEASE send his call at least twice DE your call.

It will be much less confusing to whoever you are calling. Once the QSO is established and signals are good, you don't need to do the mundane "three by three" procedure each time. I usually do a "one by one" to let anyone

know who might be lurking/reading the mail who the QSO is between.

The sending of one's call once to answer another station is common in DX

pileups, but shouldn't be used generally. It seems to be common among Novice operators on 10 meter SSB as well. It would behoove the higher class ops and

older timers to advise these stations that this is sloppy and confusing operating

procedure. We can excuse the Novice or Tech+ for this error a FEW TIMES, but we need to inform him he should at least use the "one by one" procedure (minimum) to answer another station who has just called CQ.

Most QRP'ers do use the "three by three" format, as running low power competes with QRM and static on the HF bands, and some propagation paths/ power levels are taking things to the extreme in weak signal work.

Spread the word and have fun! Amateur history is relying on us current crop of hams to preserve the tradition and simplicity of CW manual telegraphic communication! Ain't no way you can do digital/SSB/etc. with as low an active device count as on CW! (Tubes or solid state devices, take your pick!) It is always amazing to me to be able to communicate with TWO tubes. (A single 1J6G dual triode regenerative receiver and a one tube 6T9 transmitter!)

73

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive,

Metairie, LA., 70001

ebjr@worldnet.att.net

\*\*Looking for: Hallicrafters SR-75 Transceiver\*\*

\*\*RK-34(VT-224) tubes, Butternut HF2V antenna\*\*

-----  
Date: Thu, 14 Aug 1997 13:03:30 -0700

From: Clark Savage Turner WA3JPG <turner@safety.ics.uci.edu>

To: Dana Myers K6JQ <myers@utopia.west.sun.com>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, tentec@contesting.com

Subject: [24900] Re: OMNI VI crystal oven

Message-ID: <18651.871589010@safety.ics.uci.edu>

> How stable is your frequency counter? Since the master oscillator  
> is at 10MHz, I'd be more inclined to beat it with WWV to get an  
> idea of the overall stability. Of course, if you don't know  
> which side of WWV you're on, you can't tell whether it is drifting  
> up or down, but that may not be a problem if it proves to be  
> very stable.

Thanks for the note, Dana. I use the Startek Counter, it claims a 1 ppm tcxo timebase and other wonderful things. I am going for the direct output of the master oscillator on the logic board, connector number 88, and see if that thing moves first. If that doesn't move much, the BFO is next. I'll post anything interesting.

Clark

-----  
Date: Thu, 14 Aug 1997 13:05:22 -0700

From: Clark Savage Turner WA3JPG <turner@safety.ics.uci.edu>

To: n4Lq@iglou.com  
Cc: tentec@contesting.com, qrp-1@Lehigh.EDU  
Subject: [24901] Re: [TenTec] OMNI VI crystal oven  
Message-ID: <18659.871589122@safety.ics.uci.edu>

> The bfo trimmer has been know to cause problems. I beleive it's the  
> brown one on the tx/audio board. A counter on the output of the bfo will  
> tell the story or just a stable receiver with a short wire near the tx  
> board can easily receive it and check for drift. My trimmer developed a  
> tendency to jump and a shot of wd-40 cleaned it right up. Give it some  
> time to dry before calibrating it.

Thanks, Steve. I may just go in and do that as a matter of course.  
I will be testing the master oscillator against my freq counter this  
afternoon to see if that is the major problem. Since the oven is \$50  
I want to be sure I am getting at the problem, hi hi.

Clark  
WA3JPG

-----  
Date: Thu, 14 Aug 1997 23:00:40 +0100  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: qrp-1@Lehigh.EDU  
Subject: [24902] QRP-L Command Summary  
Message-ID: <199708142200.XAA21453@chuck.dallas.sgi.com>

OK Gang,

Here is a short summary of some useful commands. Print this out and  
save it. Save this to disk and periodically browse and see if there  
is something of use. Make into a plastic card to carry around with  
you.

I will make this a monthly posting so that new subscribers will be  
reminded of the commands available. Try them out. Any mods, typos or  
additions greatly appreciated. Keep it short and please please please  
PLEAAAASSSSE do not repost to the group at large. They got it the  
first time. Also I do have a copy so no need to repeat everything  
in personal email.

tnx de K5FO

-----cut here-----

QRP-L COMMAND SUMMARY LIST --- VERSION 1.0 --- Aug 14, 1997

NOTES: your\_name is to be replaced by your name, e.g. Ludwig Beethoven  
your\_call is to be replaced by your call, e.g. K5FJZ or NO\_CALL

199X 9XMMDD means year 199X and month MM and day DD, thus  
1997 970208 is February 8th, 1997 and the digest for  
whole day

In some of the examples below the upper case letters are to avoid  
confusion. Not required unless so noted.

Your QRP-L numbers are for life. No need to redo it if you unsub  
and then come back later, go on vacation, etc. It is a non-contestable  
part of any divorce proceedings and non-transferable. It will not  
be reissued as part of a 'vanity-number' program. :-) ;-) It cannot  
be willed to a family or non-family member. Let us know if you get a  
vanity call.

Some of the files in some of the directories that have a .ps in  
their name are PostScript files and must be printed or viewed using  
a PostScript compatable printer or viewer.

The ACK command will start back individual receipt of postings and  
terminates the DIGEST and POSTPONE commands.

email to	command in body or message	results of same
LISTSERV@LEHIGH.EDU	SUBSCRIBE QRP-L your_name your_call	get on the list
LISTSERV@LEHIGH.EDU	UNSUBSCRIBE QRP-L	exit the list
LISTSERV@LEHIGH.EDU	SET QRP-L MAIL DIGEST	rcv digest mode
LISTSERV@LEHIGH.EDU	SET QRP-L MAIL POSTPONE	stop qrp-l temp.
LISTSERV@LEHIGH.EDU	SET QRP-L MAIL ACK	restart qrp-l mail
LISTSERV@LEHIGH.EDU	RECIPIENTS QRP-L	get list of members
LISTSERV@LEHIGH.EDU	INDEX QRP-L -ALL	list files online
LISTSERV@LEHIGH.EDU	GET QRP-L/subdirectory filename	get file from list
LISTSERV@LEHIGH.EDU	GET QRP-L WELCOME.TXT	get welcome file
LISTSERV@LEHIGH.EDU	GET QRP-L/ARCHIVES-OLD/199X 9XMMDD	get one day posts

LISTSERV@LEHIGH.EDU	HELP	get help
LISTSERV@LEHIGH.EDU	RUN QRP-L X GETNR your_call	get secret number
LISTSERV@LEHIGH.EDU	GET QRP-L/MISC MEMBER_NUMBERS.TXT	get secret nr list
LISTSERV@LEHIGH.EDU	RUN QRP-L X QRP_CALL	get calls by area
LISTSERV@LEHIGH.EDU	RUN QRP-L X FCC_CALL callsign	lookup up call
LISTSERV@LEHIGH.EDU	RUN QRP-L X CALLS2DIST call1 call2	lookup call2 & dist
QRP-L@LEHIGH.EDU	Message you want broadcast to group   message to qrp-l	
	Put none of the above commands in message to the group.	
	Avoid repeating previously posted messages and lengthy	
	signature files, please.	
ADAMS@SGI.COM	Message	message to Chuck
LUJCE@LEHIGH.EDU	Message	message to Jim

-----+-----+-----

ftp to

FTP.LEHIGH.EDU for ftp site. Note that .Z should be omitted in GET command  
for getting files uncompressed. Use filename without .Z extent.

web site

<http://www.lehigh.edu/lists/archives/qrp-l> To get postings (all lower case).

If you use the web facilities, please subscribe, then do a POSTPONE.  
You will show up on the list and you can post, otherwise you will only be  
able to read from the list.

Chuck Adams K5FO CP-60 adams@sgi.com  
<http://reality.sgi.com/adams/index.html>  
 K5FO's online Morse Code course --- see the home page  
 WIMPS: Qs=058 30m=53 17m=5 12m=0 States=27/05/00 DX=04/00/00 QSLs=025

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End of QRP-L Digest 818

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